(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 18 March 2004 (18.03.2004)

PCT

(10) International Publication Number WO 2004/023014 A3

(51) International Patent Classification7:

E21B 19/16

(21) International Application Number:

PCT/US2003/025716

- (22) International Filing Date: 18 August 2003 (18.08.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/412,371

9 September 2002 (09.09.2002) US

- (71) Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNLOGY [US/US]; 16200 A Park Row, Houston, TX 77084 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): COSTA, Scott [US/US]; 2011 Willow Point, Kingwood, TX 77330 (US). RING, Lev [US/US]; 14126 Heatherhill Place, Houston, TX 77077 (US). MENCHACA, Jose [US/US]; 9800 Pagewood Lane, Number 210, Houston, TX 77042 (US).
- (74) Agent: MATTINGLY, Todd; Haynes and Boone, LLP, 1000 Louisiana, Suite 4300, Houston, TX 77002-5012 (US).

- (81) Designated States (national): AE, AG, A1, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DF, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, FS, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

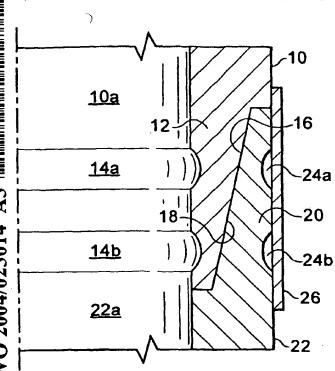
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: THREADED CONNECTION FOR EXPANDABLE TUBULARS



(57) Abstract: A threaded connection for expandable tubulars. There is a first tubular (10) with external threads (16) and a second tubular (22) with matching internal threads. Each of these tubular has stress concentration grooves (14a, 14b, 24a, 24b). There is a sleeve (26) that goes over the connection between the threaded portions of the tubulars. After connection these tubulars can be expanded downhole in a wellbore.

WO 2004/023014 A3



(88) Date of publication of the international search report: 3 March 2005

(15) Information about Correction:
Previous Correction:
see PCT Gazette No. 41/2004 of 7 October 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25714

		r	C1/0203/25/16	j	
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : E21B 19/16 US CL : 166/380, 207; 285/333					
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
U.S.: 166/380, 207, 381, 382, 206; 285/333, 334; 403/297					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	ppropriate, of the releva-	nt passages	Relevant to claim No.	
x	US 5,924,745 A (Campbell) 20 July 1999 (20.07:1999), figures 3 and 4, column 3, lines 9 - column 4, line 27.			1, 3-5, 7-9, 11, 12, 15, 17-21	
Y	SU 1,756,531 A (KRYZHANOVSKII et al) 28 March 1990 (28.03.1990), Figure 1, 1, 3-5,			1, 3-5, 7-9, 11, 12, 15, 17-21	
Y	WO 99/23354 (METCALFE) 14 May 1999 (14.05.1999), figure 5, page 11 lines 23-28.			1, 3-5, 7-9, 11, 12,	
A, E	US 6,622,797 B2 (SIVLEY IV) 23 September 2003 (23.09.2003), whole document.			15, 17-21 1-12, 15-21	
A, E	US 6,607,220 B2 (SIVLEY, IV) 19 August 2003 (19.08.2003), whole document.			1-12, 15-21	
A, P	US 6,564,875 B1 (BULLOCK) 20 May 2003 (20.05.2003), whole document.			1-12, 15-21	
A	US 2002/0108756 A1 (HARRALL et al) 15 August 2002 (15.06.2002), whole document.			1-12, 15-21	
A	US 6,322,109 B1 (CAMPBELL et al) 27 November 2001 (27.11.2001), whole document.			1-12, 15-21	
A	US 6,085,838 A (VERCAEMER et al) 11 July 2000 (11.07.2000), whole document.			1-12, 15-21	
Surther	documents are listed in the continuation of Box C.				
	pecial categories of cited documents:	See patent far	•		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "A" document defining the general state of the art which is not considered to be of particular relevance				he application has died in	
"E" carlier ap date	plication or patent published on or after the international filing	considered nove	rticular relevance; the el or cannot be conside ocument is taken alone	claimed invention cannot be red to involve an inventive	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such			
"O" document	t referring to an oral disclosure, use, exhibition or other means	combination bei	ing obvious to a person	skilled in the art	
"P" document published prior to the international filing date but later than the priority date claimed.					
Date of the a	ctual completion of the international search	Date of mailing of the	international sear	ch report	
12 March 20	04 (12.03.2004)	13 JAN 2	_บบป		
	ailing address of the ISA/US il Stop PCT, Atm: ISA/US	Authorized officer	س براند المورد الم	,	
Con	nmissioner for Patents	David J. Bagnell V V vv V			
	D. Box 1450 xandria, Virginia 22313-1450	Telephone No. (703)	308-1113		
Facsimile No. (703) 305-3230					
Form PCT/ISA/210 (second sheet) (July 1998)					

	PCT/US03/25716		
INTERNATIONAL SEARCH REPORT	101.0303/25/10		
MINDERSONAL CHARCII MEI VIII			
	L		
	:		
	}		
·			
	l		
	}		
	÷		
	:		
Continuation of B. FIELDS SEARCHED Item 3:			
Derwent, JPO, EPO			
Terms: Thread, Stress concentrator, stress, expand/expanding, mbular, casing			

Form PCT/ISA/210 (second sheet) (July 1998)